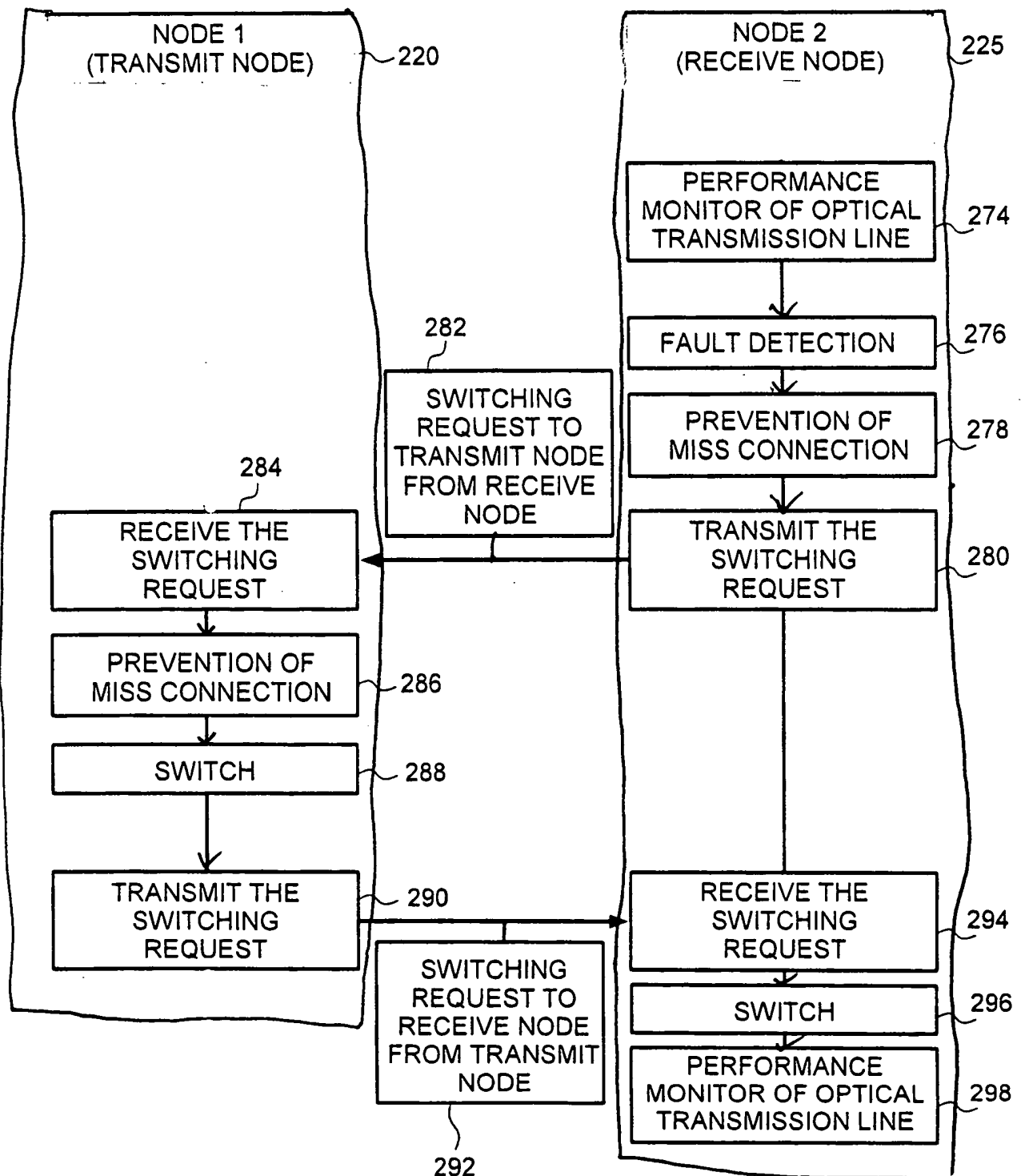


4



FIG.2



1

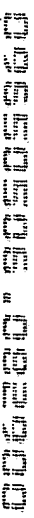


FIG.4

	PRIORITY	TRANSMISSION LINE	CONTROL SIGNAL COMMUNICATION EQUIPMENT	
			NODE1	NODE2
SWITCHING REQUEST TO TRANSMIT NODE (NODE1) FROM RECEIVE NODE (NODE2) (282)	FIRST	2ND TRANSMISSION LINE (UP-STREAM) 195	LINE OUTPUT DEVICE 370	LINE INPUT DEVICE 365
	SECOND	1ST TRANSMISSION LINE (UP-STREAM) 185	LINE OUTPUT DEVICE 350	LINE INPUT DEVICE 345
SWITCHING REQUEST TO RECEIVE NODE (NODE2) FROM TRANSMIT NODE (NODE1) (292)	FIRST	2ND TRANSMISSION LINE (DOWN-STREAM) 190	LINE INPUT DEVICE 340	LINE OUTPUT DEVICE 375
	SECOND	1ST TRANSMISSION LINE (DOWN-STREAM) 180	LINE INPUT DEVICE 360	LINE OUTPUT DEVICE 355

# FIG.5

		1ST TRANSMISSION LINE (DOWN- STREAM) 180	1ST TRANSMISSION LINE (UP-STREAM) 185	2ND TRANSMISSION LINE (DOWN- STREAM) 190	2ND TRANSMISSION LINE (UP-STREAM) 195
		LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365
NORMAL STATE	TRANSMITTER	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370
	PERFORMANCE MONITOR	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345
AFTER SWITCHING	TRANSMITTER	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350
	PERFORMANCE MONITOR				

# FIG. 6

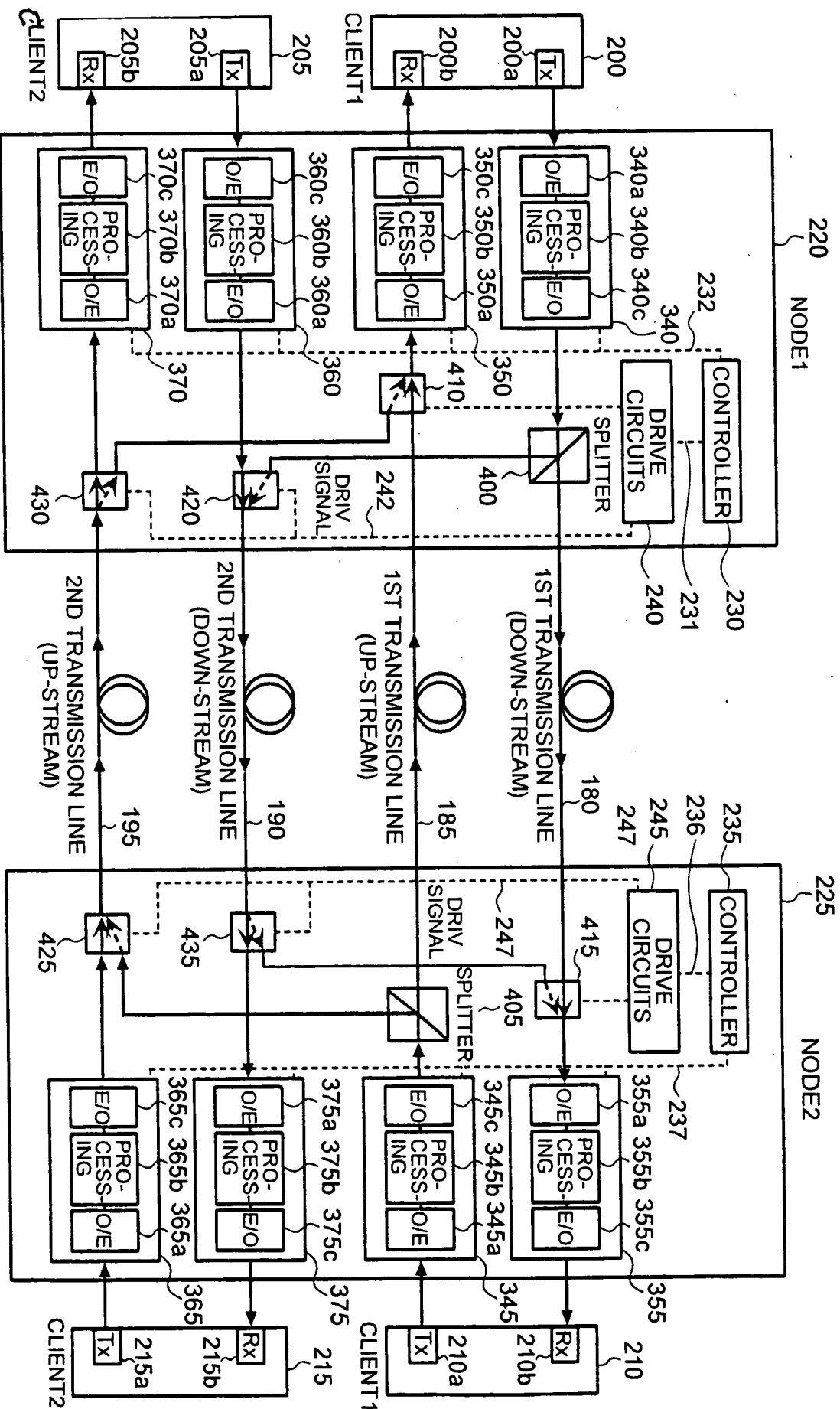


FIG.7

	PRIORITY	TRANSMISSION LINE	CONTROL SIGNAL COMMUNICATION EQUIPMENT	
			NODE1	NODE2
SWITCHING REQUEST TO TRANSMIT NODE (NODE1) FROM RECEIVE NODE (NODE2) (282)	FIRST	2ND TRANSMISSION LINE (UP-STREAM) 195	LINE OUTPUT DEVICE 370	LINE INPUT DEVICE 365
	SECOND	1ST TRANSMISSION LINE (UP-STREAM) 185	LINE OUTPUT DEVICE 350	LINE INPUT DEVICE 345
SWITCHING REQUEST TO RECEIVE NODE (NODE2) FROM TRANSMIT NODE (NODE1) (292)	FIRST	2ND TRANSMISSION LINE (DOWN-STREAM) 190	LINE INPUT DEVICE 340	LINE OUTPUT DEVICE 375
	SECOND	1ST TRANSMISSION LINE (DOWN-STREAM) 180	LINE INPUT DEVICE 340	LINE OUTPUT DEVICE 355

FIG.8

		1ST TRANSMISSION LINE (DOWN- STREAM) 180	1ST TRANSMISSION LINE (UP-STREAM) 185	2ND TRANSMISSION LINE (DOWN- STREAM) 190	2ND TRANSMISSION LINE (UP-STREAM) 195
NORMAL STATE	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365
	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370
	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345
AFTER SWITCHING	PERFORMANCE MONITOR	NONE	NONE	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350



# FIG. 9

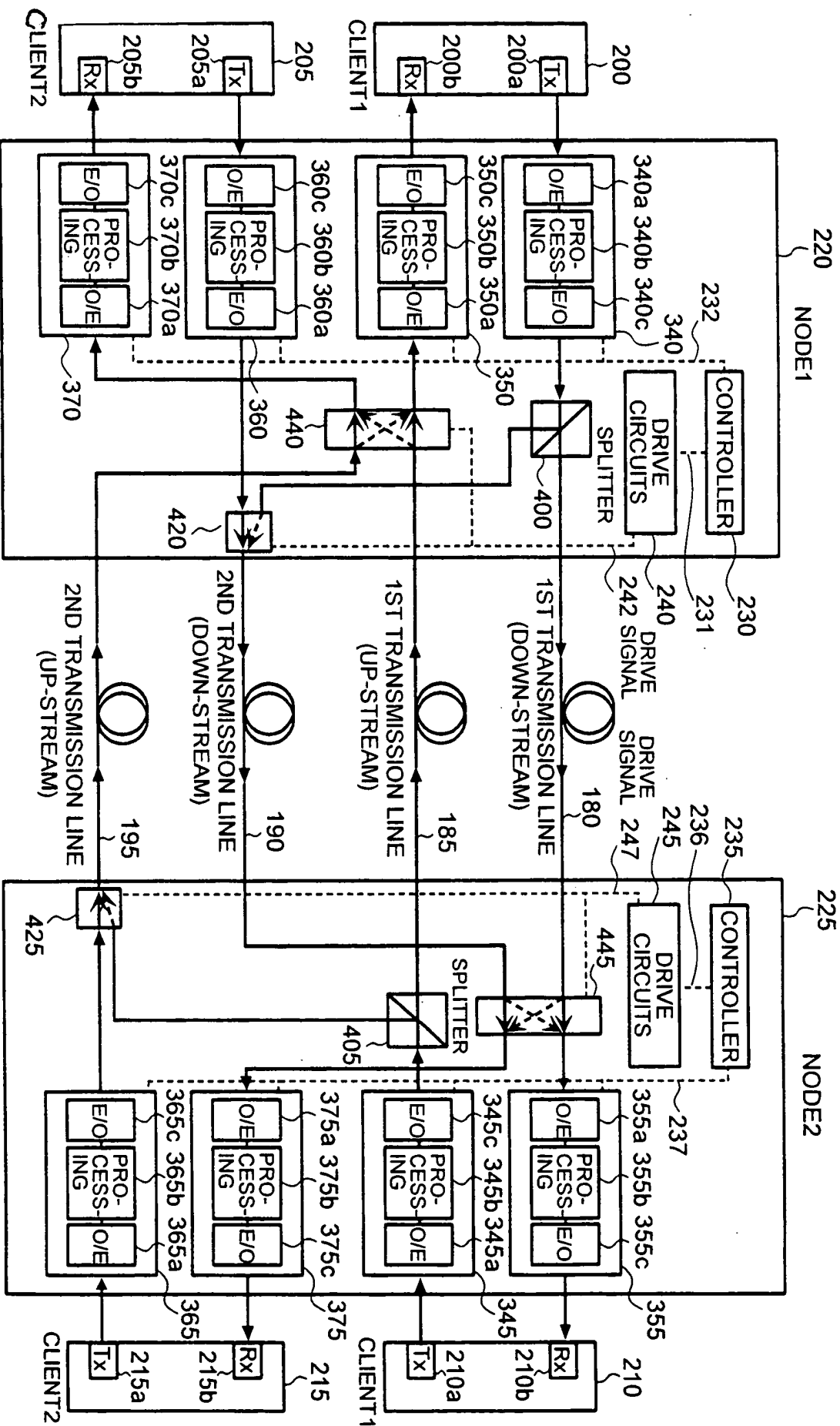


FIG.10

		1ST TRANSMISSION LINE (DOWN- STREAM) 180	1ST TRANSMISSION LINE (UP-STREAM) 185	2ND TRANSMISSION LINE (DOWN- STREAM) 190	2ND TRANSMISSION LINE (UP-STREAM) 195
NORMAL STATE	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 360	LINE INPUT DEVICE 365
	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370
	TRANSMITTER	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345	LINE INPUT DEVICE 340	LINE INPUT DEVICE 345
AFTER SWITCHING	PERFORMANCE MONITOR	LINE OUTPUT DEVICE 375	LINE OUTPUT DEVICE 370	LINE OUTPUT DEVICE 355	LINE OUTPUT DEVICE 350

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# FIG.11

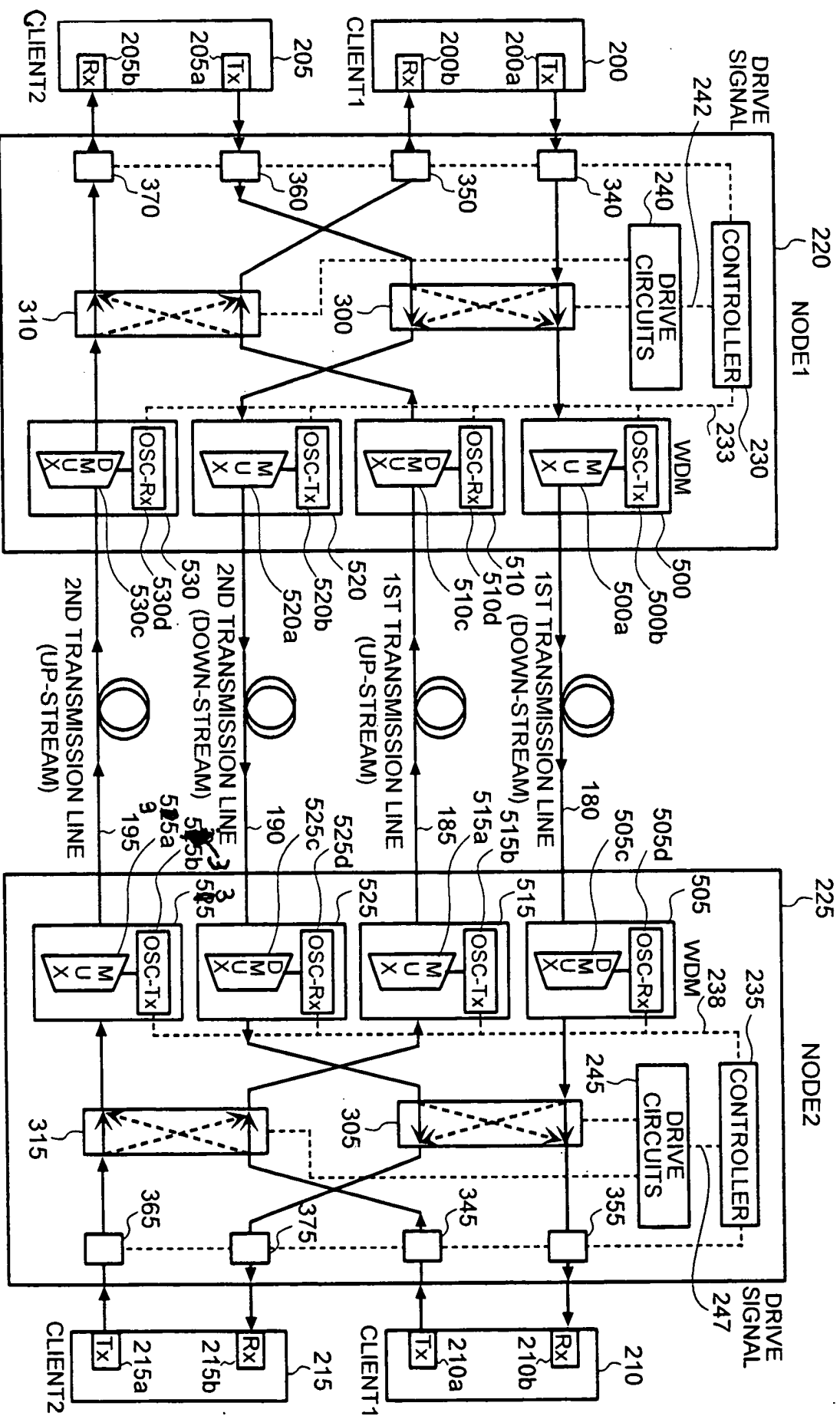


FIG.12 A

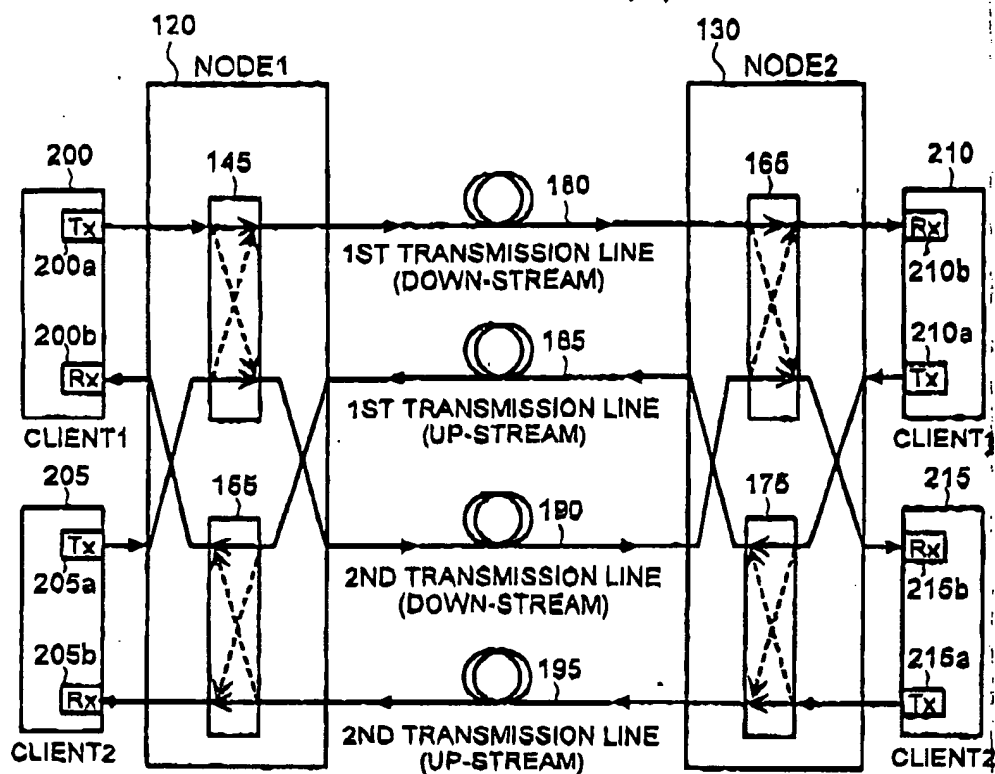


FIG.12 B

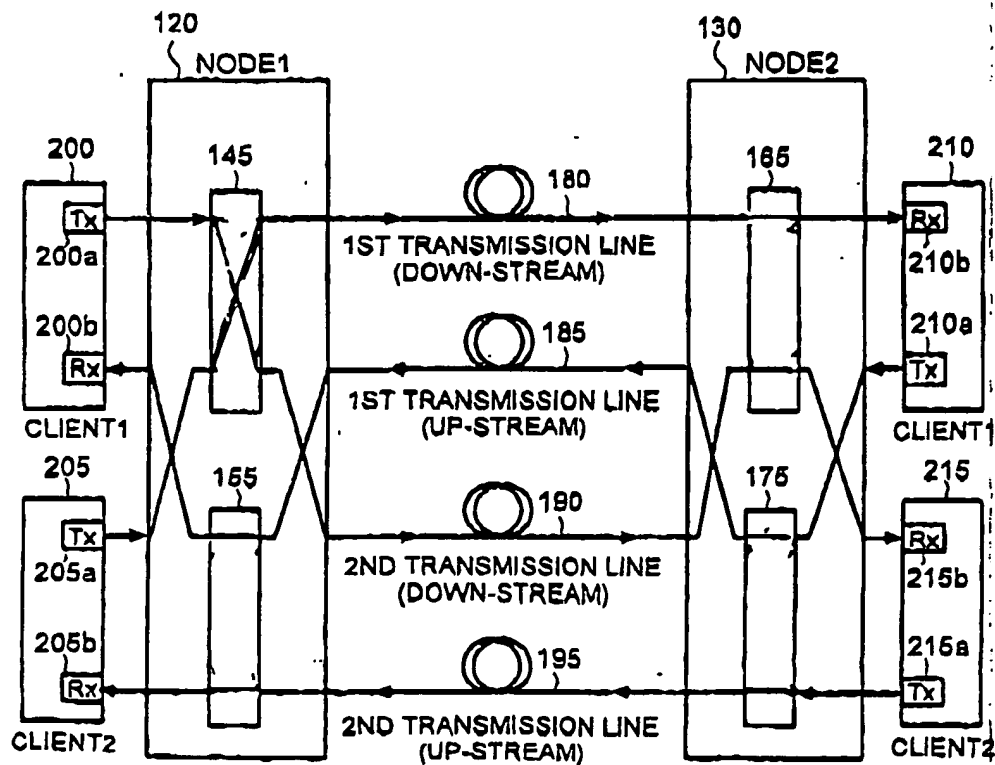


FIG.13

*No space*

TRANSMITTER	RECEIVER		
	NOR MAL	AFTER SWITCHING OF TRANSMITTING NODE	AFTER SWITCHING OF BOTH NODES
200a CLIENT1	210b	215b (MISS- CONNECTION)	210b
205a CLIENT2	215b	210b (MISS- CONNECTION)	215b